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ATLANTIC COAST OBSERVER NETWORK, MD / DE / DC CHAPTER WITH DATA FROM NEARBY AREAS

EXTREME 100° HEAT AND EXTENDED PERIOD WITH TEMPERATURES BELOW 70°

August this year was highlighted by extreme maximum temperatures, both heat and cold, along with some very uncomfortable nights and strong thunderstorms. Temperatures averaged above normal while precipitation varied from below normal to above normal. **Hagerstown 1E** reported its wettest August since 1955.

This month's heat was broken by an unseasonable streak of maximum temperatures below 70 degrees. Temperatures remained below 70 for 112 hours at **Bear 2 SW DE** and 86 1/2 hours at **Glenmont 1 NNE**. This period lowered August's average temperature upwards of an estimated 3 degrees.

August began on a hot note. Maximum temperatures of 90° or higher occurred on most of the first 10 days east of the mountains. Highs in the mid 90's occurred on the 3rd and 4th. 100 degrees was observed by **Joe Manfre of Baltimore 2 SE** on the 2nd and 4th in the City of Baltimore.

The heat was slightly broken for a couple of days when a backdoor cold front moved through on the 5th. Dew points briefly fell down to the lower 60's for a few hours on the 5th. Showers and thunderstorms the evening of the 5th and early on the 6th brought upwards of half an inch of rain. **Floyd Abell of Hollywood** reported a severe thunderstorm along with a tornado warning, small hail, and a 54 MPH wind gust. 1.55" of rain fell from 3:30 PM and 4:15 PM.

The heat and humidity returned in full force on the 7th. The 100 degree mark was broken by the following ACON observers on the 8th:

- 105° Joe Manfre Baltimore 2 SE
- 104° John Zyla Ridge
- 103° Marty Brumback Bryans Road 2 ESE
Joe Terry Forest Glen
- 102° Dan Hanson Pasadena 3 SW
Jeff Stoudt Laurel 2 E

- 102° David Roth Mont. Village 1 SW
Brian Smith Oxon Hill
Floyd Abell Hollywood
- 101° Stan Rossen Glenmont 1 NNE
- 100° Ray Muller Westminster City
Lance Schaffer Sterling 4N

Stan Rossen of Glenmont 1 NNE, our ACON "Washington Climate Expert", noted that the 8th was one of the warmest days ever for NWS Washington National. The average temperature of 91° was 2 degrees shy of the record of 93° set on 7/6/1999 and 1 degree cooler than the second hottest day of 92° set on 8/6/1918. The minimum temperature of 80 was one degree shy of the record of 81 set last year on August 3rd.

Seasonally warm temperatures followed from the 10th to the 17th. Temperatures were generally in the mid to upper 80's over the northern region and upper 80's to lower 90's over the southern portions. The 17th was the warmest when temperatures rose into the lower to mid 90s.

Much welcomed rains along with cloudy, unseasonable cool maximum temperatures moved into the region on the 19th. Upwards of 2 inches of rain fell over a large portion of the two state area from the 19th to the 22nd. The heaviest rains reported by ACON observers was 3.53" at **Frostburg** by **Greg Latta**, 3.03" at **Hagerstown 1E** by **Greg Keefer**, 2.98" at **LaVale** by **Nate Mullins**, and 2.89" by **Max Hutto of Smithsburg 1.5 SW**. The most remarkable item that happened during this period was the consecutive number of hours the temperature remained below 70.

Sultry conditions quickly returned for the 24th and 25th. Temperatures were in the upper 80's to lower 90's on the 24th and the mid to upper 90's on the 25th. The heat was broken by thunderstorms on the 25th. Over an inch of rain fell in Washington County. **Max Hutto of Smithsburg**

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Baltimore 2 SE	105
Ridge	104
Bryans Road 2 ESE	103
Forest Glen	103

MINIMUM TEMPERATURE

Davis 3 SE WV	48
Parkton 5 SW	49
Eagle Rock	50

WARMEST AVG. TEMP.

Baltimore 2 SE	82.4
Oxon Hill	79.9
Hollywood	79.7
Ridge	79.7

COLDEST AVG. TEMP.

Davis 3 SE WV	68.0
Frostburg	69.3
Eagle Rock	71.5

MAXIMUM PRECIPITATION

Hagerstown 1 E	7.53
Smithsburg 1.5 SW	7.45
Eagle Rock	7.17

MINIMUM PRECIPITATION

Laurel JHU/APL	2.36
Bethesda	2.50
Bryans Road 2 ESE	2.57

1.5 SW reported 1.29", **Greg Keefer of Hagerstown 1E** 1.22", and **Jim Vaughn of Smithsburg 2 NE** 1.16". **Greg Klein of Westminster 5 SSE** reported a violent evening storm with very strong winds and awesome lightning.

The 26th to the 31st saw temperatures in the 80's. with a few scattered showers in Allegany and Washington Counties.

OBSERVER COMMENTS FOR AUGUST 2007

Gary Gallaher of Bear 2 SW, DE

Timely rains cut short the time that plants were under stress and prevented yards from turning brown. Frequent frontal passages cut down on the length of days with high humidity.

18th—23rd - 112 hours where the temperatures remained below 70. This period of unseasonable temps lowered the monthly average temperature an estimated 3 degrees.

Greg Latta of Frostburg

10th - Damaging winds

Nate Mullins of LaVale

Wettest August in 16 years of records.

9th - Quick heavy downpours and gusty winds 6 - 8 PM with frequent lightning.

21st - Cloudy and cool all day with mountain fog. Heavy overnight rain ended by daybreak.

Dan Hanson of Pasadena 3 SW

Station closed on the 24th. Re-opened at a new nearby location on September 20th as Pasadena 2N.

Jeff Stoudt of Laurel 2 E

Torrid summertime conditions ruled the month.

21st - Brief +TSRA at dawn; SHRA AM; -DZ PM..

Al Kreinik of Parkton 5 SW

Summer Avg max 85.3, Avg min 61.7, Avg 73.5.

Rain too late for corn crop. Early corn harvested 4th week of the month, incredible!

Marty Sharrow of Owings Mills

8th - Hazy sun, hot, and humid 98 degrees.

19th - Overcast, much cooler, occasional showers.

Joe Manfre of Baltimore 2SE

2nd - 101° Partly cloudy, very hot, low humidity.

8th - 105° Variable clouds, very hot, very humid.

Greg Klein of Westminster 5 SSE

25th - Violent evening storm with very strong winds and awesome lightning.

Ralph Hartsock of Westminster 4 SSE

8th - Early sprinkle, sunny and blazing hot.

25th - Sunny and very hot and humid. PM severe t'stms.

Bobby Miller of Millers 4 NE

Summer Avg max 83.0 (+1.2), Avg min 61.1 (-1.0), Avg 72.1 (+0.1). Wettest August since 1999.

20th - 61° max temp - a new August record low max temp.

Marty Brumback of Bryans Road 2 ESE

8th - Absolutely miserable. At 3:01 PM 102.6° was recorded. Dew points were in the upper 60's and low 70's with light winds during the day.

Eric Glass of Emmitsburg 2 SE

15th - Sunny, clear, bright.

26th - Hazy, humid, partly cloudy.

Rebecca Harvey of Eagle Rock

13 days with thunder.

Rich Giannola of JHU/APL

9th - Early afternoon thunderstorm.

Rob Cohen of Potomac 4 N

Record max temps set on the 8th (98°) and 25th (95°).

Rich Giannola of Laurel 1 S

9th - Early afternoon thunderstorm. Daily max and min temperatures separated by 45 minutes - 94° max at 12:38 PM and 70° at 1:23 PM.

Stan Rossen of Glenmont 1 NNE

Summer precipitation 9.17"

8th - Average temp of 89 set an all time station record.

Max temp of 101 tied the all time station and August record set on 7/16/1988, tied on 8/15/1988, 8/16/1997, and 7/6/1999. Min temp of 77 tied all time station record set on 7/19/1991, tied on 9/2/1993 & 8/3/2006.

19th—23rd - The temperature remained in the 60s here for 86½ hours -from 8:30 P.M. (EDT) on Sunday (8/19) to 11:00 on Wednesday (8/23).

Kevin Shaw of Gaithersburg 2 WNW

Temps failed to fall below 60°, a rare August event. Three consecutive days with the max temp in the 60's was a first for August.

Joe Terry of Forest Glen

18 consecutive days with temperature 90° or higher July 31st to August 17th.

8th - Extraordinary heat and humidity. Most uncomfortable day since July 15, 1995. Highest maximum (103°) and minimum (79°) in station history (12 years). Maximum heat index 117°!

18th - Dew point 41° at midnight.

21st - Very heavy predawn t'shwr. 0.30" fell in 5 minutes.

Floyd Abell of Hollywood

5th - Bad storm. Tornado warning. 1.55" rain 3:30 PM to 4:15 PM. Small hail, 54 MPH wind gust with some tree and building damage.

John Zyla of Ridge

8th - Record all time station heat: Maximum 103.6°. Record August minimum 80.8°.

Max Hutto of Smithsburg 1.5 SW

10th - AM fog, very warm, humid, breezy.

16th - AM t'stms with heavy rain, very dark skies.

25th - Hot, very humid. Heat index 112°.

Greg Keefer of Hagerstown 1 E

August precipitation of 7.53" was the wettest since 1955 when the August record of 8.85" was set.

9th - Intense thunderstorm 11:30 AM - 12:30 PM. Winds gusted to 42 MPH. More 6:15 - 7:30 PM. Winds gusted to 40 MPH. Some wind damage today.

25th - Tied daily record high of 96 set in 1943. Heat index peaked at 112°. Dew points were in the mid to upper 70's.

Jim Vaughn of Smithsburg 2 NE

August precipitation of 6.65" was the third wettest.

25th - Peak wind gust of 57 MPH surpassed the previous August record of 55 set on August 28, 2002.

Lance Shaffer of Sterling 4 N VA

26th - 31st - 85° maximum temperature each day.

Compiled by Gary Gallaher, MD/DE ACON Data Collector and Report Writer, from data received from dedicated observers. Without your observations each month this report will not be possible.